

68-58-6-2/21

A Method of Automatic Determination and Control of the Moisture Content of Coal Charge

of the blend will be nearly constant. The design of the moisture meter and its electrical scheme are shown in Figs. 1, 2 and 3 respectively. The general set-up of the automatic control of moisture - Fig. 5., and an example of the constancy of the moisture content - Fig. 6. There are 6 figures and 6 references, all of which are

ASSOCIATIONS: Magnitogorskiy metallurgicheskiy kombinat
(Magnitogorsk Metallurgical Combine) and
VUKhIN

1. Coal--Moisture content
2. Humidity--Determination
3. Humidity--Control systems

Card 2/2

FILYASHINA, G. A., CAND MED SCI, "ON MECHANISMS OF ^{diuresis} DEP-
RESSION ~~OF STIMULI~~ ^{stimulation} IN INTEROCEPTIVE ~~IRITATION~~ OF THE STO-
MACH." MOSCOW, MEDGIZ [MEDICAL PUBLISHING HOUSE], 1960.
(ACAD MED SCI USSR, INST OF NORMAL AND PATHOLOGICAL PHY-
SIOLOGY). (KL, 3-61, 236).

FILYASHINA, G.A.

Mechanisms of the depression of diuresis during interoceptive
stimulations of the stomach. Fiziol.zhur. 46 no.6, 729-736 Ja '60.
(MIRA 13:8)

1. From the Section of Biological Sciences, U.S.S.R., Academy of
Sciences, Moscow.

(INNERVATION)

(DIURETICS AND DIURESIS)

A. N. N. A., Ya. I.; F. I. Y. A. S. H. I. N. A., G. A.

Effect of small doses of internal irradiation on some aspects of
water, mineral and nitrogen metabolism in animals. Report No. 1.
Radiobiologiya 4, no. 5: 668-674. '64. (MIRA 18:4)

1. Institut vysshay nervnoy deyatel'nosti i neyrofizologii AN
SSSR, Moskva.

AZHIPA, Ya.I.; FILYASHINA, G.A.

Effect of low doses of inner irradiation on some aspects of water, mineral, and nitrogen metabolism in animals. Report No.2. Content in the blood and excretion with urine of electrolytes and nitrogen metabolism products following penetration into the organism of Na^{24} in low doses. Radiobiologiya 5 no.5:667-674 '65. (MIRA 18:11)

1. Institut vysshey nervnoy deyatel'nosti i neyrofiziologii AN SSSR, Moskva.

FILYASHKIN, K., general-leutenant

On guard for peace and security. Voen.vest. 42 no.5:11-13
My '62. (MIRA 15:11)
(World politics) (Warsaw Pact, 1955)

FILYASOV, K.A., otvetstvennyy za vypusk; VAKHTUROV, A.N., red.; SOLOV'YEV, I.I., red.; SADOVSKIY, G.L., red.; SUTYRIN, M.A., red.; KHIZHIN, A.V., red. [deceased]; CHIGODAYEV, N.N., red. [deceased]; GORCHAKOV, G.N., tekhn.red.

[Regulations for inland navigation in the U.S.S.R.] Pravila plavaniya po vnutrennim vodnym putyam SSSR. Vvedeny v deistvie prikazom MRF no.212 ot 28 iulia 1945 g. Dop. i izmeneniya vvedeny v deistvie prikazom MRF no. 314 ot 14 oktiabria 1947 g. Izd. 8-os, stereotip. Moskva, Izd-vo "Rechnoi transport," 1958. 197 p. (MIRA 11:5)

1. Russia (1923- U.S.S.R.) Ministerstvo rechnogo flota.
(Inland navigation--Law and regulation)

NIKOLIN, A.V.; BELOV, A.P., kapitan-nastavnik; VAHLAMOV, I.S., kapitan-nastavnik; KOSMACHEV, I.K., kapitan-nastavnik; SARATOV, V.F., kapitan-nastavnik; SEMONIN, M.I., kapitan-nastavnik; BEKMAN, A.A., kapitan; DRUZHININ, A.V., kapitan; IVANINA, B.F., kapitan; POLETAYEV, L.A., kapitan; VESHCHILOV, K.A.; VYKHODTSEV, P.K.; SMOLDYREV, A.Ye.; VERESHCHAGIN, Ye.A.; SUTYRIN, M.A.; SAVOSTIN, N.D.; FILYASOV, K.A.; GOLOVUSHKIN, M.P.; IVANOV, A.I.; FILYASOV, K.A., otv.za vypusk; ALEKSEYEV, V.I., red.izd-va; YERMAKOVA, T.T., tekhn.red.

[Rules of navigation on R.S.F.S.R. inland waterways] Pravila plavaniia po vnutrennim vodnym putiam RSFSR. Vvedeny v deistvie s 1 marta 1959 g. prikazom ministra rechnogo flota no.28 ot 11 fevralia 1959 g. Moskva, Izd-vo "Rechnoi transport," 1959. 124 p. (MIRA 13:6)

1. Russia (1917- R.S.F.S.R.) Ministerstvo rechnogo flota. 2. Glavnyy revizor po bezopasnosti sudokhodstva (for Nikolin). 3. Nachal'niki basseynovykh sudokhodnykh inspektsiy (for Veshchilov, Vykhodtsev, Smoldyrev). 4. Rabotniki Upravleniya glavnogo revizora po bezopasnosti sudokhodstva (for Vereshchagin, Sutyryn, Savostin, Filyasov). 5. Glavnoye upravleniye vodnykh putey i gidrotekhnicheskikh sooruzheniy (for Golovushkin).

(Inland navigation--Laws and regulations)

ALEKSEYEVSKIY, Fedor Grigor'yevich; SUTYRIN, M.A., retsenzent;
FILYASOV, K.A., red.; MAKRUZHINA, A.N., red. izd-va;
RIDNAYA, I.V., tekhn. red.

[Rigging] Takelazhnye raboty. Izd. 6. perer. 1 dop. Moskva,
Izd-vo "Rechnoi transport," 1962. 148 p. (MIRA 15:7)
(Masts and rigging)

NIKOLIN, A.V., glav. revizor po bezopasnosti sudokhodstva, red.;
 PIROZHKOV, N.I., kapitan-nastavnik, red.; POLETAYEV,
 L.A., kapitan-nastavnik, red.; KOZIN, N.A., kapitan,
 red.; KUZNETSOV, B.Yu, kapitan, red.; TARASOV, A.G.,
 kapitan, red.; VYKHODTSEV, P.K., red.; PERMYAKOV, V.V.,
 red.; SIDOROV, F.G., red.; SOLOV'YEV, V.B., red.;
 SHIRINKIN, A.D., red.; SHCHEPETOV, I.A., red.; SMIRNOV,
 F.A., red.; KOSTIN, V.F., red.; SAVOSTIN, N.D., red.;
 FILYASOV, K.A., red.; IVANOV, A.I., red.; LOBANOV, Ye.M.,
 red. izd-va; REMNEVA, T.T., tekhn. red.

[Rules for the navigation on inland shipping routes of the
 R.S.F.S.R.] Pravila plavaniia po vnutrennim sudokhodnym
 putiam RSFSR. Vvedeny v deistvie s 15 marta 1963. g. pri-
 kazom ministra rechnogo flota No.33 ot 28 fevralia 1963. g.
 Moskva, Izd-vo "Rechnoi transport," 1963. 98 p.

(MIRA 16:6)

1. Russia (1917- R.S.F.S.R.) Ministerstvo rechnogo flota.
 (Inland navigation—Laws and regulations)

ACC NR: AR6027511

SOURCE CODE: UR/0137/66/000/004/I068/I068

AUTHOR: Gorin, D. I.; Filyayev, A. T.

TITLE: X-ray structural analysis of a roller-burnished steel surface

SOURCE: Ref. zh. Metallurgiya, Abs. 4I458

REF SOURCE: Sb. nauchn. tr. aspirantov. Belorussk. in-t mekhaniz. s.-kh. Minsk, 1965, 54-61

TOPIC TAGS: *steel* x ray analysis, surface property, metal stress / 45 steel, 35 steel, 15 steel, 45G2 steel

TRANSLATION: Samples of type 45, 35, 15 and 45G2 steels were studied (normalized condition). The surface of the samples was roller-burnished by two rolls attached to a screw cutting lathe. The pressure in the contact zone of the strengthening roll with the part was $3.0 \cdot 10^4 - 5.2 \cdot 10^4$ kg/cm². As a result of the burnishing, the first order stresses reached 26-32 kg/mm² (the lower value in medium alloy and alloy steel, the higher in type 15 steel) and the block size decreased (the lowest value of $1.6 \cdot 10^{-6}$ and $1.31 \cdot 10^{-6}$ cm in type 45 and 45G2 steel). The use of x-rays made it possible to determine the optimum rolling condition. V. Olenicheva.

SUB CODE: 11,13

UDC: 669.14.018.26

Card 1/1

L 38369-66 EWT(m)/T DS

ACC NR: AT6021374

(A)

SOURCE CODE: UR/2631/65/000/007/0169/0174

AUTHOR: Filyayev, A. T.; Karpachev, S. V.; Pal'guyev, S. F.

52
Br-1

ORG: none*

TITLE: Study of the polarization of the oxygen electrode¹ in a solid electrolyte

SOURCE: *AN SSSR. Ural'skiy filial. Institut elektrokhimii. Trudy, no. 7, 1965. Elektrokhiymiya rasplavlyennykh soleykh i tverdykh elektrolitov; termodinamika i kinetika elektrodnykh protsessov (Electrochemistry of fused salts and solid electrolytes; thermodynamics and kinetics of electrode processes), 169-174

TOPIC TAGS: electric polarization, oxygen, platinum, zirconium compound, calcium compound, electric impedance, electrode

ABSTRACT: Continuing their investigation of electrode polarization in solid electrolytes, the authors studied the polarization of the platinum oxygen electrode as a function of current density in the solid solution $0.85\text{ZrO}_2 \cdot 0.15\text{CaO}$. The anodic polarization was determined from oscillograms of the electrode potential drop with time after the polarizing current was switched off. At relatively low polarizations, the current dependence of the polarization obeyed Tafel's equation, $\Delta\phi = a + b \log i$, where $b = 1.3 \frac{2.3 RT}{2F}$. It is shown that this value of the coefficient is compatible

with the slow discharge theory. The impedance of the electrode - electrolyte inter-

Card 1/2

L 38369-66

ACC NR: AT6021374

face was studied as a function of the polarization of the oxygen electrode and frequency of the alternating current. In addition, the dependence of the polarization on the current intensity was studied at low polarizations. It was found that the rate of the electrochemical stage proper of the process probably plays an appreciable part in the electrode reaction kinetics. It is possible that some other nonelectrochemical stages of the process also have to be taken into account when the rate of the electrode process is determined. The capacity of the electric double layer was evaluated. Orig. art. has: 7 figures, 2 tables, and 7 formulas.

SUB CODE: 07/ SUBM DATE: 23Aug65/ ORIG REF: 007/ OTH REF: 001

09/

Card 2/2 LC

(A) L 27454-66 EWT(m)/EWP(j)/T RM

ACC NR: AP5021520

SOURCE CODE: UR/0113/65/000/008/0032/0033

AUTHOR: Bocharov, N. F. (Candidate of technical sciences); Filyushkin, A. V. (Candidate of technical sciences); Semenov, V. M. (Candidate of technical sciences); Pugin, P. P.

ORG: MVTU im. Bauman; NAMI

TITLE: Tests of tires with a different number of cord layers

SOURCE: Avtomobil'naya promyshlennost', no. 8, 1965, 32-33

TOPIC TAGS: motor vehicle, vehicle tire, wear material, friction, test, test method, elasticity

ABSTRACT: In 1963 the MVТУ im. Bauman carried out tests of 4-, 6-, 8-, and 10-ply OI-25 tires (size: 14.00-20) mounted on an Ural-375 automobile. To test the tires as simple drive units, the front and middle drives (6 x 2 tire arrangement) were disconnected. The tensiometric device consisted of an N-700 oscillograph, 8 ANCh-7M amplifier and a PPT-100, semiconductor converter. The experiments recorded the driving torque on the wheels, the number of engine revolutions, stresses on the driving axle, the turns of the auxiliary (dynamometric) wheel, and the weight on the tires. Tests showed that peripheral and radial tire elasticity is substantially affected by the number of plies, air pressure, and the vertical load. Both types of elasticity influence to a considerable degree the rolling friction while moving on a firm road. The peripheral tire elasticity influences in an essential manner the nonuniform distribution of torques over the driving axles of automobiles with blocked power gear. Orig. art. has: 4 formulas and 4 figures.

Card 1/2

UDC: 629.11.012.5.001.5

L 27454-66

ACC NR: AP5021520

SUB CODE: 13,20 SUBM DATE: none / ORIG REF: 005

Card 2/2

FILYAVICH, A.Ye.

Use of exercise therapy by patients with pneumosclerosis in over-all sanatorium and health resort treatment. Vop. kur., fizioter. i lech. fiz. kul't. 25 no.4:350-354 J1-Ag '60. (MIRA 13:9)

1. Iz terapevticheskoy kliniki i otdeleniya lechebnoy fizkul'tury (zav. - kand.meditsinskikh nauk A.A. Sinitsina) Instituta im. I.M. Sechenova (zav. - prof. S.R. Tatevosov) v. Yalte.
(LUNGS---DISEASES) (EXERCISE THERAPY)

FILYAVICH, A.Ye.

Effect of massage of the chest in patients with chronic
respiratory diseases. Vop. kur., fizioter. i lech. fiz.
kul't. 28 no.4:346-349 J1-Ag '63. (MIRA 17:9)

1. Iz terapevticheskoy kliniki (zav. S.P. Tatevosov) i otdeleniya
lechebnoy fizicheskoy kul'tury (zav. - kand. med. nauk A.A.
Sinitsyna) Yaltinskogo instituta klimatologii i klimatoterapii
imeni Sechenova.

FILYAYEV, A.

Voluntary designing and planning section in action. Mashinostroitel'
no.1:31 Ja '61. (MIRA 14:3)

1. Sekretar' Stalinskogo rayonnogo komiteta Vsesoyuznogo Leninskogo
kommunisticheskogo soyuza molodezhi g. Minska.
(Minsk—Technological innovations)

FILYAYEV, A.

Good deeds can not be counted. Mashinostroitel' no.6:2 Je
'61. (MIRA 14:6)

1. Sekretar' Stalinskogo Rayonnogo komiteta Leninskogo
kommunisticheskogo soyuza molodezhi Belorussii, goroda Minska.
(Communist Youth League)

FILYAYEV, A.T.; KARPACHEV, S.V.; PAL'GUYEV, S.F.

Capacitance of a double electric layer in solid electrolytes.
Dokl. AN SSSR 149 no.4:909-910 Ap '63. (MIRA 16:3)

1. Institut elektrokhimii Ural'skogo filiala AN SSSR. Predstavleno
akademikom A.N.Frumkinym.
(Fused salts—Electric properties)

40829

5.4700

S/631/61/000/002/013/013
1003/1203

AUTHORS: Filyayev, A. T., Pal'guyev, S. F., and Karpachev, S. V.

TITLE: Investigation of electrode polarization in solid electrolytes

SOURCE: Akademiya nauk SSSR. Ural'skiy filial. Institut elektrokhemii. Trudy, no 2, 1961, Elektrokhemiya rasplavlennykh solevykh i tverdykh elektrolitov. 199-209

TEXT: There are indications in the literature that the conductivity at elevated temperatures in a solid electrolyte consisting of 15 mole % CaO and 85 mole % of ZrO_2 is almost entirely ionic and supposedly due to the movement of oxygen ions. The polarization of the $CO + CO_2 (Pt) | \text{solid electrolyte } 0.15 \text{ CaO} \cdot 0.85 ZrO_2 | O_2 (Pt)$ cell was measured by a device containing a potentiometer or an oscilloscope. The oxygen electrode was used as the reference electrode, because it is not readily polarized. The relationship between the anodic polarization of the $CO-CO_2$ electrode and the polarizing current density is expressed by the equation $\mu = q + b \cdot \log i$, where $b \approx 2.3 \cdot RT/F$ for both anodic and cathodic polarization. Oscillographic measurements show that, after the current is cut off, the polarization decreases so slowly that it can be correctly measured by means of an oscillograph. This is probable due to changes in concentrations caused by inhibition of diffusion or of chemical processes. There are 9 figures and 4 tables.

Card 1/1

KARPACHEV, S.V.; FILYAYEV, A.T.; PAL'GUYEV, S.F.

Anodic polarization in solid electrolytes. Trudy Inst. elektrokhim. UFAN SSSR no.3:161-164 '62. (MIRA 16:6)

(Electrolytes) (Polarization (Electricity))

KARPACHEV, S. V.; FILYAYEV, A. T.; PALGUYEV, S. F.

"Polarization of Oxygen Platinum Electrodes in a 0.85 ZrO₂ 0.15 CaO
Solid Electrolyte."

Report presented at the 11th meeting CITCE, Intl. Comm. of Electrochemical
Thermodynamics and Kinetics, Moscow, 19-25 Aug 63.

Ural Institute of Electrochemistry, Academy of Sciences of U.S.S.R.

L 30219-66 EWT(m)/ETC(f)/T/ENP(t)/ETI -IJP(c) - DS/WW/JD/JG

ACC NR: AP6015014

(A)

SOURCE CODE: UR/0364/66/002/005/0617/0619

AUTHOR: Karpachev, S. V.; Filyayev, A. T.

40
B

ORG: Institute of Electrochemistry, Ural Affiliate, Academy of Sciences SSSR,
Sverdlovsk (Institut elektrokhemii Ural'skogo filiala Akademii nauk SSSR)

TITLE: Some specific features of the behavior of gas electrodes in contact with a solid electrolyte

SOURCE: Elektrokhemiya, v. 2, no. 5, 1966, 617-619

TOPIC TAGS: zirconium compound, calcium oxide, solid solution, electrolyte, platinum, electrode potential, cathode polarization

ABSTRACT: The authors measured the capacity of the electric double layer in the solid solution $0.852\text{ZrO}_2 \cdot 0.15\text{CaO}$ in order to refine the data obtained earlier and to use the method of capacity measurement for studying the behavior of gas electrodes in contact with a solid electrolyte. Platinum electrodes were employed and the capacity and resistance of the electric double layer were measured (at a frequency of 100 Kc) as functions of the electrode potential. Pretreatment of the electrode with anodic current decreased the electrode capacity. This is attributed to a decrease in the contact area between the electrolyte and the electrode, caused by the disrupting action of the oxygen escaping from the electrode, as indicated by a rise of the ohmic resistance and

UDC: 541.135.4

Card 1/2

L 30219-66

ACC NR: AP6015014

drop of the anodic polarization of the electrode following the pretreatment. A substantially weaker effect in the range of high cathodic polarizations may be due to the appearance of electron conduction. The data indicate that a compact platinum electrode does not have a constant working surface. The capacity values obtained are not absolute, since the true area of contact between the electrode and the electrolyte is not known. Orig. art. has: 2 figures.

SUB CODE: 07/ SUBM DATE: 19Feb65/ ORIG REF: 006

Card 2/2 NC

PILYAYEV, Vladimir Yakovlevich; GRUSHINA, Polina Vasil'yevna; SYZRANTSEV,
A.L., redaktor; AL'TMAN, T.B., tekhnicheskii redaktor.

[Restoration of wells by cutting out and sinking a second shaft]
Vosstanovlenie skvazhin metodom zarezki i provedki vtorogo stvola.
Baku, Azerbaidzhanskoe gos. izd-vo neftianoi i nauchno-tekhn. lit-
ry, 1955. 39 p. [Microfilm] (MLRA 9:6)
(Oil wells--Repairing)

FILYAYEV, Yu.T.

Combination dies. Kuz.-shtam. proizv. 3 no.8:46 Ag '61.

(MIRA 14:8)

(Dies (Metalworking))

VOVCHUK, V.A. (Stanislav, ul.Dnestrovskaya, d.20, kv.10); FILYUK, F.A.

Primary cranioplasty in a contaminated wound of the brain. Nov. khir.
arkh. no.4:1112-113 J1-Ag '60. (MIRA 15:2)

1. Kafedra gospital'noy khirurgii (zav. - prof. S.A.Verkh ratskiy)
Stanislavskogo meditsinskogo instituta i khirurgicheskoye otdeleniye
Dilyatinskoy uchastkovoy bol'nitsy Yaremchanskogo rayona.
(SKULL SURGERY) (BRAIN WOUNDS AND INJURIES)

9(2)

SOV/107-59-4-11/45

AUTHORS: Polyakov, M., Mitrofanov, V., Filyukov, L., Levintov, G.

TITLE: New Mass-Production Radio Receivers (Novyye massovyye radiopriyemniki)

PERIODICAL: Radio, 1959, Nr 4, pp 12 - 15 (USSR)

ABSTRACT: The Soviet radio industry has begun the mass-production of the "Zarya" and the "Strela" radio receivers. Although the same types of miniature tubes are used in both, their circuitry is different. Figure 1 shows the circuit diagram of the "Zarya" and Figure 2 that of the "Strela" receiver. They are designed for reception of radio stations working on medium (187-577) and long (723-2000) waves. They may be connected to any type of record player. The sensitivity of these receivers at an output of not less than 0.5 watts and a sound pressure of 3-3.5 bar, is not less than 400 microvolts. The range of reproducible sound frequencies is from 150 to 5000 cps at a non-linear

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SOV/107-59-4-11/45

New Mass-Production Radio Receivers

distortion factor of 5 %. The selectivity is not below 17 db. The receivers are fed from 127 or 220 volt mains and have a power consumption of 40 watts. Both receivers contain two 6IlP tubes and one 6Pl4P tube. One of the 6IlP tubes is used in the converter and the hexode section of the second 6IlP tube functions as an IF amplifier, while the triode section works as a LF preamplifier. The 6Pl4P tube is used in the output stage. Dynamic loudspeakers 1-GD-9 are used in both types. The rectifier of the "Zarya" radio is composed of two DG-Ts27 diodes, while a 6Ts4P rectifier tube is used in the "Strela". The circuitry of the "Strela" is similar to the one used in the "Rekord-47" and "ARZ-49" receivers. There are 4 drawings, 1 diagram, 2 circuit diagrams, 2 tables and 1 Soviet reference.

Card 2/2

VORONKOV, L.A., inzh; MITROFANOV, I.M., kand. tekhn. nauk; FITYUNIN, G.I.,
inzh.

Regulation of a double-shaft gas-turbine system according to the
traction characteristics of the locomotive. Trudy TENII MPS no.282:
96-104 '64. (MIRA 17:10)

FILYURIN, G. slesar' (g. Leningrad)

Machine for chopping rags. Prom.koop. 12 no.11:12 N '58.
(MIRA 11:11)

1. Fabrika No.1 Glavvtorsyr'ye Rospromsovetu.
(Textile machinery)

IL'CHENKO, V., zasluzhenny master sporta; VERETENNIKOV, M., master sporta;
SAMOSADOVA, A., master sporta; NASONOVA, T., master sporta;
FILYUSHIN, A., master sporta

Let us take off the roads in the clouds. Kryl. rod. 14 no.5:2
My '63. (MIRA 16:7)

(Gliding and soaring)

S^hYEDINA, G.V.; FILYUSHINA, V.V.

Appliance for the observation of light interference. Fiz. v shkole 20
№0.2:73 Mr-Apr '60. (MIRA 14:5)

1. Ivanovskiy gosudarstvennyy pedagogicheskiy institut.
(Interference (Light))

FILYUSHKIN, A.V., inzh.

Testing the 14,00-20 tires having variable layer structure on
deformable grounds. Izv. vys. ucheb. zav.; mashinostr. no.8:
89-96 '64. (MIRA 17:11)

1. Moskovskoye vyssheye tekhnicheskoye uchilishche imeni Baumana.

FILYUSHKIN, A.V., inzh.

Torque distribution in the transmission of a three-axle
motor-vehicle depending on the type of the power drive.

Izv. vys. ucheb. zav.; mashinostr. no.2:148-153 '65.
(MIRA 18:5)

BOCHAROV, N.F., kand. tekhn. nauk; FILYUSHKIN, A.V., kand. tekhn. nauk;
SEMENOV, V.M., kand. tekhn. nauk; PUGIN, P.P.

Testing tires with variable cord lays. Avt. prom. 31 no.8:32-33
Ag '65. (MIRA 18:8)

1. Moskovskoye vyssheye tekhnicheskoye uchilishche imeni
Baumana i Tsentral'nyy nauchno-issledovatel'skiy ordena
Trudovogo Krasnogo Znameni avtomobil'nyy i avtomotornyy
institut.

L 15610-56

ACC NR: AP6016319

(A)

SOURCE CODE: UR/0113/66/000/001/0014/0017

AUTHOR: Filyushkin, A. V. (Candidate of technical sciences); Bocharov, N. F. (Candidate of technical sciences); Semenov, V. M. (Candidate of technical sciences); Pugin, P. P.

ORG: MVTU imeni Bauman; NAMI

32
14

TITLE: The effect of kinematic chain arrangement in three-axle automotive vehicles on fuel consumption with respect to motion along a solid support surface

SOURCE: Avtomobil'naya promyshlennost', no. 1, 1966, 14-17

TOPIC TAGS: vehicle power transmission system, drive train, cargo truck, fuel consumption, highway vehicle data, automotive industry

ABSTRACT: The authors study the effect which the kinematic chain arrangement in three-axle automotive vehicles has on fuel consumption. Six types of kinematic arrangements are studied: 1. 6x6 with interlocked drive; 2. 6x6 with a differential drive; 3. 6x4 with an interlocked drive between the axle assemblies of the frame; 4. 6x4 with a differential drive between the frame axle arrangements; 5. 6x6 with a differential drive between the axle assemblies of the frame and interlocking drive to the front axle assembly; 6. 6x6 with an interlocked drive between the axle assemblies of the frame and a differential drive to the front axle assembly. Data are given from re-

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UDC: 629.115.3.001.5

L 45610-66

ACC NR: AP6016319

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search done at the Moscow Higher Technical Academy im. Bauman in 1963-64 on determining the effect of kinematic chain type on fuel consumption. The test vehicle was the "Ural-375" truck equipped with an auxiliary symmetric interaxial differential with interlocking between the frame axle assemblies. The differential between the frame axle assemblies made it possible to achieve all six kinematic chain variants. All fuel consumption tests were done on 1-km test runs. Load and velocity were varied during testing. The 6x6 differential drive is the most economic from the standpoint of fuel consumption. Maximum fuel consumption was observed in the 6x4 axle arrangement with interlocking drive to the frame axle assemblies and free wheeling front axle. This vehicle consumed more fuel than a 6x6 axle arrangement with all interlocking drives. The results show that all further designs of three-axle automotive vehicles with a 6x4 axle arrangement should incorporate a differential drive between the frame axle assemblies. The maximum difference between the most economic and most wasteful drives for 6x6 axle arrangement vehicles is 10%. The use of 6x6 trucks as tractors exaggerates the fuel consumption difference even more. Orig. art. has: 4 figures, 2 tables.

SUB CODE: 13/ SUBM DATE: None/ ORIG REF: 004

Card 2/2 mjs

FILYUSHKIN, B.N.

Conference of Young Members of the Institut of Oceanography of
the Academy of Sciences of the U.S.S.R. Izv. AN SSSR, Ser. geog.
no. 5:148-150 S-O ' 58. (MIRA 11:12)
(Oceanographic research)

FILYUSHKIN, B.H.

Yugoslavian Marine Institute, Priroda 49 no.5:107-108
My '60. (MIRA 13:5)

1. Institut okeanologii AN SSSR, Moskva.
(Yugoslavia--Oceanographic research)

FILYUSHKIN, B. N.

Oceanographic study of the Mediterranean Sea. Trudy Inst. okean.
56:294-306 '62. (MIRA 15:10)

(Mediterranean Sea—Oceanography)

FILYUSHKIN, B. N.

Seasonal fluctuations of sea level on the eastern shore of
the Adriatic Sea. Trudy Inst. okean. 56:307-312 '62.
(MIRA 15:10)

(Adriatic Sea—Hydrelogy)

KITAYGORODSKIY, S.A.; FILYUSHKIN, B.N.

Discontinuity layer in the ocean. Trudy Inst. okean. 66:3-28 '63.
(MIRA 16:10)

ARATSKAYA, V.V.; FILYUSHKIN, B.N.

Determination of the layers of maximum temperature and salinity
gradients in the ocean. Okeanologiya 3 no.3:424-430 '63.
(MIRA 16:8)

1. Institut okeanologii AN SSSR.
(Pacific Ocean—Ocean temperature)
(Pacific Ocean—Salinity)

FILYUSHKIN, B. N.

KITAYGORODSKIY, S. A., and FILYUSHKIN, B. N.,

"Application of the turbulent mixing theories in the upper layer of the ocean
to the analysis of observations"

Report to be submitted for the 13th General Assembly, Intl. Union of Geodesy
and Geophysics (IUGG), Berkeley, Calif., 19-31 Aug 63

L 32730-66 EWT(1) GW

ACC NR: AP6010813

(N)

SOURCE CODE: UR/0213/65/005/006/0940/0946

AUTHOR: Filyushkin, B. N.

ORG: Institute of Oceanology, AN SSSR (Institut okeanologii AN SSSR)

TITLE: Possibility of determining certain parameters of the vertical temperature profile in the ocean surface layers 12

SOURCE: Okeanologiya, v. 5, no. 6, 1965, 940-946

TOPIC TAGS: oceanography, temperature gradient, temperature distribution, *ocean*
DYNAMICS, WIND VELOCITY

ABSTRACT: Previous investigations had shown that it was possible to use standard oceanographic and meteorological data to check the theory of turbulent mixing in the upper layer of the sea, using the data of the Canadian weather station "Papa." Within the frameworks of the theory of the layer of frictional influence the results obtained show the existence of definite relationships for the maximum of the vertical temperature gradient and the depth of its upper boundary. However, in the formulas that were derived, the influence of the heat flux was taken into account correctly only when determining the maximum of the vertical temperature gradient. In the present article, the author attempts to check the existence of these relationships for another region of the ocean and attempts to investigate

Card 1/2

UDC 551.465.15+551.465.41(26)

L 32730-66

ACC NR: AP6010813

the change of their character in relation to the period of averaging the initial data, using for this purpose methods of the similarity theory. The observations at the Japanese weather station "Tango" were used. It was found that the use of the methods of the similarity theory for the layer of frictional influence in the sea showed the existence of definite relationships having a common character in the ocean. The identity of these relationships was shown for the two regions of observation, the "Papa" and "Tango" stations, which indicates that the formulas derived in this study are sufficiently general. However, the author states that before a general formula can be derived for calculating the basic parameters of the layer of maximal vertical gradients in the ocean, it is necessary to investigate the character of the change of a and b , which are constants determined by the least-square method, for a large number of points and to attempt to determine the dependence of the change of a on the character of large-scale processes. On the other hand, the author, taking into account the importance of calculating the average thickness of the layer of wind mixing and the temperature gradients in their maximal layer, deems it necessary to conduct a special experiment to obtain a long series of observations of the depth of the upper and lower boundaries of the layer of maximal temperature gradients, the maximal vertical temperature gradient, wind velocity, and heat flux in order to determine the form of the standard working formula for finding the average scale and to eliminate the effect of short-period random calculations. Orig. art. has: 3 figures and 12 formulas.

SUB CODE: 08 / SUBM DATE: 30Dec64 / ORIG REF: 007 / OTH REF: 004
Card 2/2 JS

ACC NR: AT7003616

(N)

SOURCE CODE: UR/3090/66/000/015/0005/0022

AUTHOR: Neyman, V. G.; Filyushkin, B. N.; Shcherbinin, A. D.

ORG: none

TITLE: Structure and circulation of the water masses in the Eastern Indian Ocean during the summer monsoon

SOURCE: AN SSSR. Mezhdunarodnyy geofizicheskiy komitet. X razdel programmy MGG: Okeanologiya. Sbornik statey, no. 15, 1966. Okeanologicheskiye issledovaniya, 5-22

TOPIC TAGS: hydrographic survey, ocean current, ~~oceanographic expedition, oceanographic ship~~ OCEAN DYNAMICS / EASTERN INDIAN OCEAN

ABSTRACT: In this article hydrographic observations made on board the r/v Vityaz' from July through October 1962 are analyzed. The main part of the hydrological survey took place along sections at 77°, 84°, and 91°30'E longitude, the Bay of Bengal, and from the eastern tip of Java to Australia. Temperature and salinity distribution diagrams of the eastern part of the Indian Ocean are given. It is shown that the pattern of currents is connected with monsoon and trade winds and determines the main features of the distribution of hydrological elements. Based on dynamic computations, the water circulation in the baroclinic layer of the ocean corresponds to a two-layer

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UDC: none

ACC NR: AT7003616

model. The topography of the upper isothermal layer is in agreement with the dynamic topography of the ocean surface. Divergence and convergence zones as well as boundaries of regions with different hydrological structure are determined. Orig. art. has: 12 figures. [BA]

SUB CODE: 08/ SUBM DATE: none/ ORIG REF: 008/ OTH REF: 007

Card 2/2

FILYUSHKIN, I. V.

INTERNATIONAL ATOMIC ENERGY AGENCY, (IAEA)
Symposium on Neutron Detection, Dosimetry
and Standardization - Harwell, England,
10-14 December 1962

DOROSHENKO, G. G., GLAGOLEV, V. I., BABANOV,
I. R., and FILYUSHKIN, I. V. - "A new
method for studying continuous fast neutron
spectra - the counting efficacies method"
(Section I.1.(4))

DOROSHENKO, G. G., and Ye. L. STOLYAROVA
[STOLYAROVA in 1960 was a member of the
Moscow Engineering Physics Institute] -
"A new method for separating pulses from
fast neutrons and γ quanta" (Section III)
IVANOV, V. I. - "A modified procedure for
using the Hurst type proportional counter
for dosimetry of mixed γ -neutron radiation"
(Section III)

MASHKOVICH, Vadim Pavlovich - "The spectro-
metric method and the attenuation-curve
analysis method for determining the activity
of threshold indicators" (Section I.3.(2))
STOLYAROVA, Ye. L. [In 1960 was a member of
the Moscow Engineering Physics Institute] -
"Methods of fast-neutron spectrometry and the
opportunities for their use in neutron
dosimetry" (Section II.1)

ZIELEZYNSKI, M. [ZIELEZYNSKI is listed in the
program as a USSR author; he may, however, be
Mieczyslaw ZIELINSKI who in 1958 was at
Warsaw University, Poland] - "Recombination
method of linear energy transfer (LET)
determination of mixed adiation" (Section V)

ZELOUTSKIN, V. G., DOROSHENKO, G. G., and
YEFIMENKO, B. A. - "Calculation of pulse-
height distributions and counting efficiencies
of a fast-neutron scintillation detector"
(Section I.2)

(71)

45451
S/892/62/000/001/014/022
B102/B186

216000

AUTHORS: Doroshenko, G. G., Glagolev, V. I., Filyushkin, I. V.,
Afanas'yev, M. I.

TITLE: Calculation of the counting efficiency in fast-neutron
recording for a detector with an organic crystal

SOURCE: Moscow. Inzhenerno-fizicheskiy institut. Voprosy dosimetrii
i zashchity ot izlucheniya, no. 1, 1962, 90-99

TEXT: The counting efficiency $\epsilon(E, B)$ is calculated for a fast-neutron
detector with a 30 mm-thick stilbene crystal as scintillator; E is the
neutron energy and B the recording threshold, i.e. the lowest neutron
energy recorded. In stilbene the neutrons are recorded via the recoil
protons or via nuclear reactions with carbon or hydrogen. The carbon
nuclei play an important part since their density is higher ($C_{14}H_{12}$), and
in the high-energy range the total (n, C) interaction cross-section is of
the order of that of (n, p) scattering. Multiple scattering effects are
negligible for medium-size crystals. In first approximation (single
scattering) ϵ_1 is calculated from the collision probability

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B102/B186

Calculation of the counting ...

$$P_1(E_0) = \int_0^1 e^{-\bar{\sigma}(E_0)(1-x)} n_0(E_0) dx = \frac{n_0(E_0)}{\bar{\sigma}(E_0)} (1 - e^{-\bar{\sigma}(E_0)}) \quad (3)$$

for the distance $1-x$ from the left window. Since $\mathcal{E}_1(E, B) = P_1(E_0) d\alpha = P_1(E_0) \alpha_B$ (where $\alpha = E/E_0$, the neutron energy fraction retained after the first collision, E being the energy of the scattered neutron) and $\alpha_B = (E_0 - B)/E_0$, one obtains

$$\mathcal{E}_1(E, B) = \frac{n_0(E)}{\bar{\sigma}(E_0)} (1 - e^{-\bar{\sigma}(E_0)}) \left(1 - \frac{B}{E_0}\right) \quad (4)$$

where

$$\left. \begin{aligned} n_0(E) &= n_H(E) + n_C(E) \\ \bar{\sigma}(E) &= \sigma(E) + \frac{n_C}{n_H} \sigma_C(E) \end{aligned} \right\} \quad (1)$$

(n and n_C being the nuclear concentrations of H and C; $\sigma(E)$ the (n,p) scattering cross-section; $\sigma_C(E)$ the total (n,C) scattering cross-section)

Card 2/3

Calculation of the counting ...

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B102/B186

In the case of double scattering,

$$\epsilon_2(E, B) = \int_0^B P_1(E_0, E_1) \frac{dE_1}{E_1} - \int_0^B P_1(E_0, E_1) dE_1 \quad (II)$$

is obtained (where $\beta = E/E_0$ and $\beta_1 = 1 - B/E_0$). From a comparison of the energy dependences of ϵ_1 and ϵ_2 it can be seen that at low energies the ϵ_2 curves lie higher than the ϵ_1 curves. The role of ϵ_2 is reduced with increasing neutron energy, and for ~11 Mev neutrons both curves coincide. The effect of double scattering increases with B. The peaks of the ϵ -curves are due to the resonance character of the (n, γ) scattering cross-section. There are 5 figures.

Card 3/3

ACCESSION NR: AT4021265

S/2892/63/000/002/0152/0157

AUTHOR: Doroshenko, G. G., Glagolev, V. I., Barabanov, I. R., Filyushkin, I. V.

TITLE: Application of the denumerable efficiency method for measuring the spectra of fast neutrons

SOURCE: Voprosy* dozimetrii i zashchity* ot izlucheniya, no. 2, 1963, 152-157

TOPIC TAGS: denumerable efficiency, fast neutron, Monte Carlo method, neutron spectrum, photomultiplier, FEU-33, computer, BESM-2, trapezoidal rule, Simpson rule

ABSTRACT: In this paper, a new method for the study of neutron spectra -- the denumerable efficiency method -- is discussed. This method has the advantage that it is applicable to any shape of spectral line and the initial data used in this method are the integral count velocities, thereby decreasing a statistical error. The main principle of this method is contained in the use of the known dependence of the absolute denumerable efficiency in registering $\epsilon(E, B)$ on the neutron energy E and the energy threshold B of the neutron counter. Of the possible methods studied, the trapezoidal rule and Simpson rule are the most suitable. The results are presented and verified in graphs. The authors find the development of a multi-

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ACCESSION NR: AT4021265

threshold analyzer to be most expedient because of its considerable simplicity, as compared with the multichannel analyzers now in use. The authors claim this method will simplify considerably the task of obtaining spectra. The authors express their gratitude to V. G. Zolotukhin for his interest in the article and for his valuable advice. Orig. art. has: 3 figures and 6 formulas.

ASSOCIATION: Moskovskiy inzhenerno-fizicheskii institut (Moscow Physics and Engineering Institute)

SUBMITTED: 00

DATE ACQ: 06Apr64

ENCL: 00

SUB CODE: NS, PH

NO REF SOV: 004

OTHER: 007

Card 2/2

ACCESSION NR: AT4021266

8/2892/63/000/002/0158/0161

AUTHOR: Doroshenko, G. G., Glagolev, V. I., Barabanov, I. R., Filyushkin, I. V.

TITLE: Application of the denumerable efficiency method for measurement of the spectra of γ quanta

SOURCE: Voprosy* dozimetrii i zashchity* ot izlucheniya, no. 2, 1963, 158-161

TOPIC TAGS: denumerable efficiency, γ rays, γ quanta, shield, energy threshold, γ spectrometry, organic scintillators, cobalt 60

ABSTRACT: The authors use the denumerable efficiency method for measuring γ spectra. This new method is described by Doroshenko, G. G. and Larichev, A. V. (Izv. AN SSSR, Ser. fiz. 27, No. 1, 141, 1963). The continuous spectra of γ rays obtained in the scattering of γ quanta of cobalt 60 in shields of iron, lead and their combination, are studied. The measurement results of the γ spectra with eight thresholds are presented in graphs. Based on the data, the authors suggest the development of a simple portable γ spectrometer. The denumerable efficiency method makes it possible to use organic scintillators for γ spectrometry. The authors express their gratitude to A. V. Larichev for his contribution of experimental data. Orig. art. has: 4 figures and 3 formulas.

Card 1/1

MOSCOW ENGINEERING PHYSICS INST.

S/2892/63/000/002/0179/0184

ACCESSION NR: AT4021269

AUTHOR: Doroshenko, G. G., Filyushkin, I. V., Fedorov, V. A.

TITLE: A separation device for a scintillation spectrometer of fast neutrons

SOURCE: Voprosy* dozimetrii i zashchity* ot izlucheniya, no. 2, 1963, 179-184

TOPIC TAGS: scintillation spectrometer, fast neutrons, γ quanta, time discrimination

ABSTRACT: The discovery of the fact that the form of a scintillation pulse in some organic phosphors depends on the type of exciting particle (Brooks, F. Nucl. Instrum., 4, no. 3, 151 (1959)) has made it possible to perform a separation of pulses from fast neutrons and γ quanta. This has enabled the authors to develop a highly efficient single crystal scintillation spectrometer, the schematic of which is presented in this paper. Oscillograms which explain the operation of the device are presented. The authors also present the results of measuring the threshold of separation and the spectrometric threshold of the separation device. The separation device operates normally until the "integral load" exceeds 4×10^3 pulses/sec. Within these limits, the efficiency of the separation device does not exceed $5 \times 10^{-3}\%$ in respect to γ radiation. Orig. art. has: 4 figures.

Card 1/2

ACCESSION NR: AT4021269

ASSOCIATION: Moskovskiy inzhenerno-fizicheskiy institut (Moscow Physics and Engineering Institute)

SUBMITTED: 00

DATE ACQ: 06Apr64

ENCL: 00

SUB CODE: SD, NS

NO REF SOV: 002

OTHER: 004

Card 2/2

ACCESSION NR: AP4006840

S/0120/63/000/006/0175/0175'

AUTHOR: Fedorov, V. A.; Doroshenko, G. G.; Filyushkin, I. V.

TITLE: A sensitive threshold device

SOURCE: Pribery* i tekhnika eksperimenta, no. 6, 1963, 175

TOPIC TAGS: sensitive threshold device, sensitive threshold circuit, threshold circuit, stable threshold circuit, threshold pickup

ABSTRACT: A sensitive triggering device is briefly described. It consists of a two-tube single-shot multivibrator with an operating threshold of from 2 to 200 mv, depending on the bias voltage used. Selected tube operating conditions and the use of a double diode key in the positive-feedback circuit are responsible for its high sensitivity. " Means for stabilizing the bias voltage are provided. Orig. art. has: 1 figure.

Card 1/2

ACCESSION NR: AP4006840

ASSOCIATION: none

SUBMITTED: 17Jan63

DATE ACQ: 24Jan64

ENCL: 00

SUB CODE: SD

NO REF SOV: 000

OTHER: 000

Card 2/2

FIDOROV, V.A.; IOROSHENKO, G.G.; FITYUSHKIN, I.V. /

Sensitive threshold device. Prib. 1 tekhn. eksp. 8 no.6:175
N-D '63. (MIRA 17:6)

L 17862-63

EWI(m)/BDS AFFTC/ASD

S/0048/63/027/007/0949/0952

ACCESSION NR: AP3003704

54

AUTHOR: Doroshenko, G.G.; Filyushkin, I.V.; Fedorov, V.A.

19

TITLE: Amplitude-time discrimination of the gamma background in a scintillation spectrometer for fast neutrons /Report of the Thirteenth Annual Conference on Nuclear Spectroscopy held in Kiev from 25 January to 2 February 1963/

SOURCE: AN SSSR, Izv.Seriya fizicheskaya, v.27, no.7, 1963, 949-952

TOPIC TAGS: neutron detectors, organic scintillators, discrimination

ABSTRACT: The fact that the shape of the scintillation pulses in some organic phosphors depends on the nature of the exciting particle has made it feasible to discriminate the pulses due to background gamma-rays from pulses produced by fast neutrons thereby realizing a high-efficiency neutron detector. A good separating circuit must insure the lowest possible separation threshold and reliable cut-off of the gamma background, and allow of a high load (counting rate). Unfortunately, present separating circuits do not fully meet these requirements. Accordingly, a separating arrangement utilizing amplitude-time discrimination is proposed in the present paper. The arrangement is diagrammed in Fig.1 of the Enclosure; it con-

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L 17862-63

ACCESSION NR: AP3003704

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sists of a separating circuit of the type designed by V.G.Brovchenko and G.V.Gorlov. (Pribery i tekhnika eksperimenta, No.4, 49, 1961), a separating channel (I), a time-delay channel (II) and a coincidence circuit. Tests of the arrangement show that it operates satisfactorily up to an "internal load" of 4×10^3 pulses per sec; up to this point the detecting efficiency for gamma-radiation does not exceed 0.01%. Orig.art.has: 3 figures.

ASSOCIATION: none

SUBMITTED: 00

DATE ACQ: 02Aug63

ENCL: 01

SUB CODE: SD, NS

NO REF SOV: 003

OTHER: 004

Card 2/3

DOROSHENKO, G.G.; GLAGOLEV, V.I.; BARABANOV, I.R.; FILYUSHKIN, I.V.

Results of measurements of fast neutron spectra using the
counting efficiency method. Izv. AN SSSR. Ser. fiz. 27
no.10:1308-1312 0 '63. (MIRA 16:10)

DOROSHENKO, G. G.; FILYUSHKIN, I. V.

"Spectra of Fast Neutrons of a Po-Be Source After Water Shielding."

report submitted for All-Union Conf on Nuclear Spectroscopy, Tbilisi, 14-22
Feb 64.

MIFI (Moscow Engineering Physics Inst)

ACCESSION NR: AP4015566

S/0089/64/016/002/0152/0153

AUTHORS: Doroshenko, G.G.; Filyushkin, I.V.,

TITLE: The spectra of fast neutrons from a Po-Be-source passing through a water shielding

SOURCE: Atomnaya energiya, v. 16, no. 2, 1964, 152-153

TOPIC TAGS: Po-Be-source, stilbene crystal, gamma-background, discrimination, semi-infinite geometry, barrier geometry, fast neutron, neutron spectra, water shielding, oxygen nucleus, infinite medium, relaxation, isotropic source, fission spectrum

ABSTRACT: Experimental measurements and theoretical calculations have been made of fast neutron spectra from a Po-Be-source after they have passed through a water shielding. In view of the proximity of the energy spectra, the results obtained are applicable to Pu-Be- and Ra-Be-sources. The measurements have been made with a single-crystal spectrometer of fast neutrons and a stilbene crystal

Card 1/32

ACCESSION NR: AP4015566

measuring 30 x 30 mm. In the case of a 40 cm layer of water, the full neutron flux hitting the detector amounted to 7.7 neutr/cm²·sec, and the measuring time was 3 hours. The spectrometric threshold of the spectrometer was determined by a matrix and amounted to 1 Mev. Attention is called to the congruence between the theoretical and experimental spectra in an infinite medium. On the other hand, the characteristic details of the real spectra, associated with the energy dependence of the oxygen cross-section, were not clearly manifested in the theoretical spectra. The attenuation theoretically calculated for an infinite medium was found to be congruent with the experimentally measured attenuation in a semi-infinite medium in the case of a 30 cm layer. "The authors express their gratitude to V.A. Chudayev for his assistance in calculating the theoretical spectra of a Po-Be-source, and to Yu. L. Grishnin for his assistance in the experimental data processing." Orig. art. has: 3 figures.

ASSOCIATION: None

Card 2/82

ACCESSION NR: AP4020327

S/0089/64/016/003/0218/0223

AUTHOR: Doroshenko, G. G.; Glagolev, V. I.; Barabanov, I. R.; Filyushkin, I. V.

TITLE: Analysis of reliability of methods of studying continuous spectra of fast neutrons and gamma quanta

SOURCE:- Atomnaya energiya, v. 16, no. 3, 1964, 218-223

TOPIC TAGS: continuous spectrum, fast neutron, gamma quantum, radiation spectrum, matrix method, neutron dosimetry

ABSTRACT: Various matrix methods for studying the continuous radiation spectra were analyzed from the viewpoint of reliability. The physical reliability of methods of studying the continuous spectra of fast neutrons and γ -quanta is evaluated on the basis of applying criteria of conditionality of linear equation systems. The matrix integral and differential methods of spectrometry with respect to the shape of the line are discussed and compared. In each of these methods, the relationship of conditionality to line shape, matrix rank and energy range is studied. An advantage is shown for the method of counting efficiencies with poor line shapes. "The authors are grateful to V. G. Zolotukhin for his

Card 1/2

ACCESSION NR: AP4020327

interest in the work and his helpful discussions." Orig. art. has: 10 equations,
4 figures, 1 table.

ASSOCIATION: None

SUBMITTED: 14Aug63

DATE ACQ: 31Mar64

ENCL: 00

SUB CODE: NP

NO REF SOV: 006

OTHER: 005

Card 2/2

DOROSHENKO, G.G.; GLAGOLEV, V.I.; BARABANOV, I.R.; FILYUSHKIN, I.V.

Analyzing the reliability of methods for studying the continuous
spectra of fast neutrons and gamma quanta. Atom energ. 16 no.3:
218-223 Mr '64. (MIRA 17:3)

ACCESSION NR: AT5003281

S/2892/64/000/003/0032/0044

AUTHOR: Doroshenko, G. G.; Filyushkin, I. V.; Fedorov, V. A.

TITLE: Fast neutron spectrometer 19

SOURCE: Moscow, Inzhenerno-fizicheskii institut. Voprosy dozimetrii i zashchity ot izlucheniya, no. 3, 1964, 32-44

TOPIC TAGS: fast neutron, neutron spectrometer, scintillation spectrometer, stilbene crystal, radiation dosimetry

ABSTRACT: Fast neutron scintillation spectrometers are extremely efficient devices, but due to the almost rectangular line form and high γ -sensitivity, data from such spectrometers are difficult to process. The method of recording efficiencies published earlier by the authors (Izv. AN SSSR, Ser. fiz., 27, 10, 1308, 1963) yields very reliable fast neutron spectra, and the high efficiency of the scintillation spectrometers opens a real possibility for the measurement of the spectra of very weak neutron beams (e.g., 20 neutrons/cm²·sec). The authors describe in detail a fast neutron spectrometer whose good linearity allows the attainment of an extremely low spectrometric resolution threshold (~ 80 kev on the emitted electron scale) at relatively high permissible loads ($\sim 5 \cdot 10^3$ c/sec). The

Card 1/2

L 24402-65

ACCESSION NR: AT5003281

30 x 30 mm cylindrical stilbene crystal is connected to an FEU-13 type photomultiplier. The article describes the electronic circuitry and gives the temporal diagram of the separation device pulses, the determination of the energy threshold, the shape of the Compton distribution, the ratio of the half-height energy to the maximum Compton electron energy as a function of the energy resolution (^{137}Cs quanta), the stilbene light yield as a function of emitted protons, and the inverse transposed stilbene crystal matrix. Test measurements of fast neutrons from Po-Be sources were in excellent agreement with the results of photoplate measurements and resonant cross section structure (neutron-oxygen interaction data. Orig. art. has: 4 formulas, 9 figures, and 3 tables.

None

SUBMITTED: 00

ENCL: 00

REF XIDE: 4

REF SUP: 004

OTHER: 006

Card 2/2

FILYUSHKINA, Ye. K.

Clinical aspect of Salmonella infection (murine typhus) in
children. Vopr. pediat. 19 no. 5:23-27 1951. (CIML 21:3)

1. Of the Children's Hospital of Sormovskiy Rayon Union (Head
Physician -- Ye. K. Filyushkina; Scientific Supervisor -- Prof.
B. I. Gurvich), Gor'kiy.

TROITSKIY. S.A., doktor med.nauk; FILYUSHINA, Z.G.

The duration of the presence of leucocytes (neutrophils) in the vessels of experimental animals in a normal state and when intoxicated. Probl. gemat. i perel. krovi 8 no.7:51-54 J1 '63.

(MIRA 17:10)

1. Iz klinicheskogo otdela (zav. -prof. S.I.Ashbel') Gor'kovskogo instituta gigiyeny truda i professional' nykh zabolevaniy (dir. O.M. Gavrusyko).

SHERBAN, Mikhay [Serban Mihai]; FIMAN, Iosif; KOMAN, Dan [Coman, Dan]

[Caves of Rumania] Peshchery Rumynii. Bucharest, Izd-vo
"Meridiany," 1961. xxxvi p. illus. (MIRA 15:1)
(Rumani—Caves)

SHERBAN, M.; FIMAN, I.

Similarity between underground and surficial river streams.
Nov.kar.i spel. no.3:80-81 '63. (MIRA 16:10)

FIMIN, K.

FIMIN, K.; POGOSOV, I.

~~Transfer~~ all work on agricultural taxation to rural Soviets.

Fin. SSSR 18 no.12:71-72 D '57.

(MIRA 11:1)

1. Glavnyy bukhgalter Tashkentskogo oblfinotdela (for Fimin).
2. Ispolnyayushchiy obyazannosti nachal'nika otdela nalogov i zagotovok Tashkentskogo oblfinotdela (for Pogosov)
(Agriculture--Taxation)

MAKHORD, S.P.; MATVEYEVA, M.M.; OKUNEVA, S.I.; FIMINA, I.M.

Some results of the work of the Technical Rubber Goods Industry
during 1964. Kauch. i rez. 24 no.11:39-41 '65.

(MIRA 19:1)

1. Nauchno-issledovatel'skiy institut rezinovoy promyshlennosti.

AF5006871

Smirnov, L. P., Smirnov, L. P., Samoylov, V. A., Izdat. Khim.

Use of synthetic zeolites for drying hydrocarbons

Primeneniye i tekhnologiya topiv i masel, No. 2, 1977, p. 10-11.

TOPIC TAGS: zeolite, hydrocarbon, desiccant

ABSTRACT. Petroleum fractions and individual hydrocarbons, especially aromatic ones, are hygroscopic; therefore during the winter their water content is the cause of the precipitation of ice crystals and hydrates, and an obstacle for the transportation of oil. In view of this the authors have investigated the possibility of drying of these fractions by synthetic zeolites of the type 4A. The sample of oil was first dried for 24 hours at 30°C and 10 mm Hg. The dynamic activity of the adsorbent was determined by the amount of water adsorbed by synthetic zeolites of the type 4A. The adsorbent was effectively restored by desorption at a temperature of 350°C and a pressure of 10 mm Hg for 3 hours. Orig. art. has: 3 figures, 1 table.

Card 1/2

ACCESSION NR: AP5006821

ASSOCIATION: UFNI

INCL: 00

THE

FININSKI, B.

"Forwarding Samples in Boxes." p. 21, (GOSPODARKA ZBOZOWA, Vol. 5, No. 1, Jan. 1954. Warszawa, Poland.)

SO: Monthly List of East European Accession, (EEAL), LC, Vol. 3, No. 12, Dec. 1954, Uncl.

COUNTRY : USSR K
 CATEGORY : Forestry. Forest Cultures.
 ABG. JOUR. : RZhBic1., No.23 1958, No. 104559
 AUTHOR : Finkin, V. P.
 INST. : ~~USSR Academy of Sciences~~
 TITLE : Present Condition and Perspectives for Development of
 Irrigated Forest Culture in Basins of Zeravshan and
 Kashka-Darya Rivers
 ORIG. PUB. : Materialy po proizvodit. silam Uzbekistana, 1957, vyp. 9,
 371-382
 ABSTRACT : During 1952-1955 the experience of the Samarkandskiy,
 Shafrikanskiy and Yakkabagckiy tree farms in protective
 forest culture on irrigatable meadow soils and sierozems
 was studied. On non-saline areas with a ground water level
 of from 0.5-1.0 m and lower, the following adapted well
 and develop satisfactorily with 4-7 yearly waterings,
 careful stirring-up of the soil and weed control: 2-5-year-
 old Persian walnut / Juglans regia L., black locust / Robinia
pseudacacia L., Bolle poplar, Pennsylvania ash / Fraxinus
pubescens Lam., willow, European plane tree, narrow-leaved
 oleaster / Elaeagnus angustifolia L., black lombardy poplar
 Card: 1/2

USSR/Human and Animal Physiology - Circulation.

V-4

Abs Jour : Ref Zhur - Biol., No 4, 1958, 18120

Author : Z.G. Fil'mova

Inst :

Title : The Effect of Certain Cardiac Agents on the Coronary Vessels of a Dog's Heart. An Electrocardiographic Study Using Motion Pictures.

Orig Pub : Byul. eksperim. biol. i meditsiny, 1956, 42, No 7, 49-53

Abstract : Through wide plexiglass cannulas inserted in the pericardia of 11 dogs under morphine-urethane anesthesia motion pictures were taken of the left coronary artery below its division into circumflex and descending branches. An EKG was also recorded. Caffeine, epinephrine and hypotonin (given intravenously) and validol (on the mucosa of the tongue) produced primarily a dilation of the coronary artery; epinephrine and atropine (given intravenously) and nitroglycerine (on the tongue) gave a different effect in different cases.

Card 1/2

USSR/Human and Animal Physiology - Circulation.

V-4

Abs Jour : Ref Zhur - Biol., No 4, 1958, 18120

APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000413210008-2

A period of aftereffect was noted, which was especially significant in the case of epinephrine. When the coronary vessels were dilated, the R and P waves were larger of the EKG; when constriction occurred, these waves were reduced, the duration of ventricular systole increased, and from time to time a negative T wave appeared.

Card 2/2

FIMON, Miroslav, inz.

Role of material cost indicators in the economical control of health establishments. Cesk. zdrav. 10 no.9:447-454 '62.

1. Finančni odbor ministerstva zdravotníctvi.
(HOSPITAL ADMINISTRATION)

FIMON, M. inz.

Costs of health service. Role of the budget in the control of health services. Cesk. zdrav. 12 no.1:1-14 Ja'64

1. Vedouci financniho odboru zdravotnickych sluzeb ministerstva zdravotnictvi.

✶

FIMON, M., inz.

Costs of feeding patients in hospitals. Cesk. zdrav. 12 no.11:
537-542 N '64.

1. Ved. finančního odboru ministerstva zdravotnictví.

FIMON, M., inz.

On the problem of optimal expenditure for drugs. Cesk. zdrav.
13 no.12:598-607 D '65.

1. Ministerstvo zdravotnictvi.

PUCHIK, K.F.; FIMUSHKIN, V.N.; SOKOLOV, P.V.; SAFRONOV, S.I., Geroy
Sovetskogo Soyuza; NOVIKOV, N.I.; FOMIN, S.Ye., tekhnik samoleta

We're proud of your achievement, IUrii! Kryl.rod. 12 no.5:2-3
My '61. (MIRA 14:7)

1. Nachal'nik Saratovskogo aerokluba (for Puchik). 2. Zamestitel'
nachal'nika po politicheskoy chasti Saratovskogo aerokluba (for
Fimushkin).

(Gagrin, IUrii Alekseevich, 1934-)

IBADOV, I.Yu.; FIMUSHKINA, Ye.Z. [Fimushkina, IE.Z.]

Microflora in the urine of children with cystolithiasis. Mikrobiol.
zhur. 24 no.3:32-34 '62. (MIRA 15:8)

1. Andizhanskiy meditsinskiy institut, Uzbekskaya SSR.
(URINE --MICROBIOLOGY) (CALCULI, URINARY)

FIN, Vlastimil

"Extrusion" by Ludvik Vodarek. Reviewed by Vlastimil Fin. Strc j vyr
10 nc. 3:158. '62.

FINADORIN, V.A., mostovoy master (Kiyev)

Maintenance services of communist labor. Put' 1 put. khoz.
8 no.7:10 '64. (MIRA 17:10)

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000413210008-2

APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000413210008-2"

FINAGIN, B.H.

FINAGIN, B.H. . .

On the doublet splitting of resonance frequencies of the tourmaline
piezo-plate vibrations. Zhur. tekhn. fiz. 27 no.9:2185-2187 S '57.
(Piezoelectricity) (Tourmaline) (MIRA 10:11)

FINAGIN, B. A.

"Ultrasonic Piezoelectric Oscillators Using Flexural and Other Nonthickness Vibrations."

paper presented at the 4th All-Union Conf. on Acoustics, Moscow, 26 May - ⁴~~6~~ Jun 58.

И. В. Гуров

Исследования по созданию полупроводниковых элементов в форме брусков

И. А. Фомин

О выделении элементов и дублировании элементов на собственных частотах полупроводников

И. В. Ходов

Исследования работоспособности элементов полупроводниковых приборов

А. В. Лобан

Специальные вопросы полупроводниковых приборов и их работы в режиме

Г. А. Виноградов

Исследования стабильности полупроводниковых приборов на нелинейных элементах

II часть
(с 18 до 22 часов)

А. Г. Виноградов

Новые разработки полупроводниковых приборов общего назначения

20

В. Р. Ломов

Проблемы для измерения тока на частотах до 100 МГц

А. М. Фомин

В. Е. Райков

Исследования по созданию полупроводниковых элементов в форме брусков

И. В. Ломов

Исследования по созданию полупроводниковых элементов в форме брусков

И. В. Гуров

Исследования полупроводниковых приборов

И. Г. Карпов

Устройства для измерения полупроводниковых приборов в режиме работы на частотах до 100 МГц

III часть
(с 10 до 16 часов)

report submitted for the Centennial Meeting of the Scientific Technological Society of
Radio Engineering and Electrical Communications in A. S. Popov (VSEK), Moscow,
8-12 June, 1959

FINAGIN, B.A.

Certain characteristics of the ultrasonic piezoelectric effect on surface-type oscillations. Trudy LKI no.29:251-255 '59. (MIRA 14:7)

1. Leningradskiy korablestroitel'nyy institut, kafedra fiziki.
(Crystal oscillators) (Ultrasonic waves)

FINAGIN, B.A.

High-frequency stroboscope with a neon tube used for investigating oscillations of piezoelectric plates. Izv.vys.ucheb.zav.; prib. 3 no.3:38-42 '60. (MIRA 14:4)

1. Leningradskiy korablestroitel'nyy institut. Rekomendovana kafedroy fiziki Leningradskogo korablestroitel'nogo instituta i konferentsiyey Nauchno-tekhnicheskogo obshchestva radiotekhniki i elektrosvyazi imeni A.S.Popova.

(Stroboscope)

85730

9,2180(3203, 1162 only)

S/057/60/030/009/023/023/XX
B019/B077

AUTHOR: Finagin, B. A.

TITLE: A Study of the Spectrum and the Vibration Forms of Piezo-
electric Plate Surfaces

PERIODICAL: Zhurnal tekhnicheskoy fiziki, 1960, Vo. 30, No. 9,
pp. 1115-1123

TEXT: The spectrum of the natural frequencies and the vibration forms of tourmaline and quartz piezoelectric plate surfaces were studied in a frequency range extending from a few cycles to several megacycles. The investigations were done with a Michelson interferometer. The geometrical data of the samples and the test results are condensed in Table 1. The author draws the following conclusions from the results: 1) The interference method applied has considerable advantages over other methods. 2) Hundreds of natural frequencies and vibration forms which have a different size and distribution of amplitudes on the surface were identified in the frequency range examined. This makes it possible to determine the optimum natural frequencies of a plate. 3) Tourmaline plates show more

Card 1/2

85730

A Study of the Spectrum and the Vibration . S/057/60/030/009/023/023/XX
Forms of Piezoelectric Plate Surfaces B019/B077

symmetrical vibration forms on the surface, and the relationship between the natural frequencies and the vibration forms are more distinct. 4) There seems to be the possibility to use these plates in the ultrasonic range as emitters or as light modulator in optics. 5) A doublet splitting of the natural frequencies in tourmaline plates was found. This splitting is of great theoretical interest, and should be taken into consideration when using tourmaline plates. 6) For plates to be used the suitable vibrations can be preselected. 7) It turned out that to obtain, for example, an ultrasonic field of very high intensity and of a particular structure, it is more suitable not to use the thickness vibrations of the plate but other vibration forms. The application of longitudinal or flexural vibrations and their harmonics yield better results. This paper was presented in 1957 at the Vsesoyuznaya konferentsiya po akustike (All-Union Conference on Acoustics) in Moscow. There are 6 figures, 2 tables, and 25 references: 11 Soviet, 1 British, 5 US, and 8 German. ✓

ASSOCIATION: Leningradskiy korablestroitel'nyy institut
(Leningrad Shipbuilding Institute)

Card 2/2